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Other: Online: Epodoc, WPI, PAJ

(54) Abstract Title

**Vacuum cleaner with cassette-type reusable filter**

(57) A cyclonic vacuum cleaner includes a reusable dust filter 300 removably disposed in a dust chamber of said cleaner. The filter is constructed to facilitate the removal of collected contaminants and for subsequent cleaning. Locking means 500 are provided to lock the filter in position. The filter comprises a filter housing 310 with a cover 320 disposed pivotally thereon, to pivot between an open and a closed position, a washable filter 311 contained in a dust-collecting space 312 in said housing, and a handle 330 pivotally supported on two opposing sides of the filter cover. An observation window 323 may be provided in the filter cover. The locking means comprises semi-cylindrical keys 530 formed on two opposing sides of the handle 330 which mate with corresponding grooves 510 on the dust chamber, two recesses 520 being formed on the end of the grooves in which the keys engage when the handle is rotated. The independent claims are directed to:

- a) A vacuum cleaner characterised by cyclonic suction means, and a removable, reusable filter, said filter being held in place by a locking arrangement,
- b) A vacuum cleaner characterised by a cassette filter disposed therein, said filter comprising a housing, a removable filter disposed on the housing, and a lock mechanism supported on the housing, and
- c) A cassette filter for insertion into a vacuum cleaner characterised by a housing containing a filter and a dust receptacle, an openable cover attached to the housing, and an integrated handle and lock mechanism supported on the cover.

FIG. 5

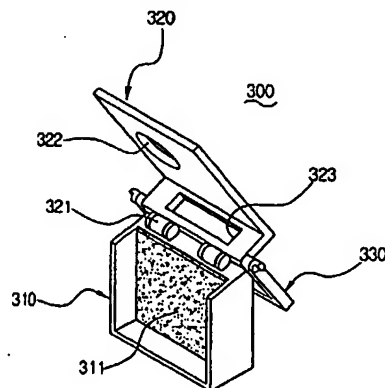
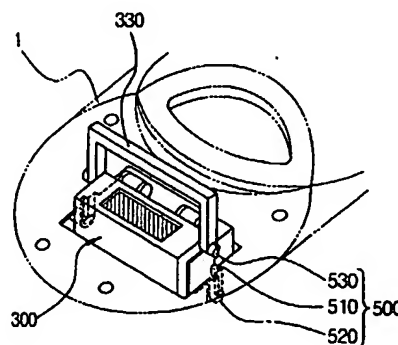


FIG. 6



GB 2 386 056 A